דער <u>י</u>	CANDO	DESCRIPTION	MANUFACTUR.		LAMPS			MOUNTINGS: P-PENDANT	REMARKS
TYPE	SYMBOL	DESCRIPTION	& CATALOG NO.	QTY	TYPE	FIXTURE TOTAL VA	VOLTAGE	R-RECESSED S-SURFACE	) REMARKS
А		FLUORESCENT WRAPAROUND WITH HIGH IMPACT ACRYLIC LENS	COLUMBIA WC4-232-EU-DR OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	2	32W T8	60	277	P/S	
В	<del>                                     </del>	4', ENCLOSED, SURFACE OR PENDANT MOUNTED INDUSTRIAL T8 FLUORESCENT FIXTURE	LITHONIA CLM-232-277-GEB10IS OR APPROVED EQUAL BY COLUMBIA OR LIGHTOLIER	2	32W T8 PROVIDE GE SPX LAMP OR APPROVED EQUAL FOR FIXTURES IN CBIS RM 133	60	277	P/S	PROVIDE SWIVEL—STEM HANGER "SQ" OPTION FOR AREAS W/O FINISHED CLO
B2	<u> </u>	SIMILAR TO FIXTURE "B" EXCEPT 120V	LITHONIA CLM-232-120-GEB10IS OR APPROVED EQUAL BY COLUMBIA OR LIGHTOLIER	2	32W T8	60	120	P/S	PROVIDE SWIVEL—STEM HANGER "SQ" OPTION FOR AREAS W/O FINISHED CLO
С	Q	WALL OR CEILING MOUNTED GUARDED GLASS COVERED VAPOR-PROOF INCANDESCENT	HALUX ELBA20GSV OR ELJA20GSV. GE-H7 SERIES HUBBELL-V SERIES	1	100W-A21	100	120	S	ELEVATOR PITS
D	Q	FULL CUTOFF METAL HALIDE WALL PACK. WET LOCATION LISTED	HUBBELL LCC-50P8-* OR APPROVED EQUAL BY COLUMBIA OR LITHONIA *-FINISH BY ARCHITECT	1	50W MH	70	277	S	EXTERIOR (BACK OF HOUSE)
		SAME AS TYPE "D" WITH EGRESS LAMP SOCKET. PROVIDE 50W HALOGEN EGRESS	HUBBELL LCC-50P8-*	1	50W MH	70	277	S	EXTERIOR (BACK OF HOUSE)
D-EM	Q	LAMP.	OR APPROVED EQUAL BY COLUMBIA OR LITHONIA *-FINISH BY ARCHITECT	1 EM LAMP	50W MH	70	1		, ,
F		4' SURFACE MOUNTED FLUORESCENT WALL BRACKET WITH T8 LAMPS.	COLUMBIA W4-232-E120 OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	2	32W T8	60	277	S	STAIRWELL
G	H	2' SURFACE MOUNTED FLUORESCENT WALL BRACKET WITH T8 LAMPS.	COLUMBIA W2-217-EU OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	2	17W T8	30	120V FOR FIXTURE IN CLOSET WITHIN BAR 226 AND 277V ELSEWHERE	S	
Н		2'X4' SURFACE MOUNT FLUORESCENT HIGH ABUSE FIXTURE. 18—GAUGE CRS HOUSING AND LENS FRAME.	KENALL HASES124-3-32-IS-2-277 -2F-2H-6 OR APPROVED EQUAL BY L.C. DOANE OR LIGHTOLIER	3	32W T8	90	277	S	
J		2'X4' SURFACE MOUNT FLUORESCENT FIXTURE.	COLUMBIA SM24-332-FSA12-EU OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	3	32W T8	90	277	S	
K		UNDERCABINET FLUORESCENT FIXTURE	LITHONIA  N2S-32-277-GEB10IS  OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	1	32W T8	30	277	S	
L		2'X4' SURFACE MOUNT FLUORESCENT FIXTURE.	COLUMBIA SM24-232-FSA12-EU OR APPROVED EQUAL BY LIGHTOLIER OR LITHONIA	2	32W T8	60	277	S	
М		2'X4' GRID MOUNT, AIR HANDLING, 18—CELL PARABOLIC FLUORESCENT FIXTURE.	LITHONIA  2ES8P-A-232-277-BILP  OR APPROVED EQUAL BY  COLUMBIA OR LIGHTOLIER	2	32W T8	48	277	G	
М2		SAME AS FIXTURE "M" BUT 120V.	LITHONIA 2ES8P-A-232-120-BILP OR APPROVED EQUAL BY COLUMBIA OR LIGHTOLIER	2	32W T8	48	120	G	
N		5"X48" LINEAR FLUORESCENT FIXTURE WITH COLD FORMED, POLYCARBONATE LENS. CEILING (PENDANT) MOUNT.	KENALL TSH548-C-3-32-EB-1 -277 AND SUP-XX-OAH OPTION FOR SUSPENSION OR APPROVED EQUAL BY L.C. DOANE OR LIGHTOLIER	3	32W T8	80	277	Р	FIXTURE SHALL BE MOUNTED 11' AFF
N2		SAME AS FIXTURE "N", WITH COLD WEATHER BALLAST OPTION ADDED.	KENALL TSH548-C-3-32-EB-1 -277 AND SUP-XX-OAH OPTION FOR SUSPENSION AND "CW" OPTION (COLD WEATHER BALLAST) OR APPROVED EQUAL BY L.C. DOANE OR LIGHTOLIER	3	32W T8	80	277	Р	FIXTURE SHALL BE MOUNTED 11' AFF
Р		2'X4' RECESSED MOUNT FLUORESCENT WITH ACRYLIC LENS	LITHONIA 2GT8-2-32-A12-277- GEB10IS OR APPROVED EQUAL BY LIGHTOLIER OR COLUMBIA	2	32W T8	58	277	S	
XA	<b>₽</b>	EDGE LIT LED EXIT SIGN.	COOPER LIGHTING SURELITES EEX SERIES OR APPROVED EQUAL BY ALKCO OR DAYBRITE		LED	6 – SINGLE FACE 12 – DBL FACE	277	S	PUBLIC AREAS
ХВ	<b>₽</b>	LED EXIT SIGN WITH STEEL HOUSING.	COOPER LIGHTING SURELITES SLX SERIES OR APPROVED EQUAL BY ALKCO OR DAYBRITE		LED	6 - SINGLE FACE 12 - DBL FACE	277	S	BACK OF HOUSE AREAS
XC	WP <b>S</b>	WEATHERPROOF EXIT SIGN.	COOPER LIGHTING SURELITES UX7 SERIES OR APPROVED EQUAL BY ALKCO OR DAYBRITE		LED	6 - SINGLE FACE 12 - DBL FACE	277	S	EXTERIOR AREAS

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULES

		Lighting Schedule						
Туре	Description	Mounting	Lamp Qty	Lamp Type	Total Fixture VA	Volts	Manufacturer	Model/Series Number
	Low Profile linear							
	fluorescent 4'							
	architectural strip fixture							
	with integral ballast.							
	Provide length as required							
	for fixtures shown in							
F1	restrooms.	Suspended/Recessed/Cove	1	F28T5	Approx. 9VA/LF	277	Bartco Lighting	MiT5-1T/28-28W-277
	Low Profile linear							
	fluorescent 4'							
	architectural strip fixture							
F1A	with integral ballast	Suspended/Recessed	1	F54T5HO	60	277	Bartco Lighting	MiT5-1T/54-54W HO-277
	Low Profile linear							
	fluorescent 4'							
	architectural strip fixture							
	with integral ballast and							
F1C	opaque lens	Surface	1	F28T5	35	277	Bartco Lighting	MiT5-1T/28-28W -277-LNO
110	Low Profile linear	Surface		12013	33	2//	Darteo Ligiting	1VII 13-11/28-28W-277-LING
	fluorescent 2'							
F4P	architectural strip fixture	Cusmon de d/D		F4 4TF	30	277	Dowler Halife	NA:TE 4T/4 4 4 4 4
F1B	with integral ballast.	Suspended/Recessed	1	F14T5	20	277	Bartco Lighting	MiT5-1T/14-14W -277
	Suspended Cylinder, two							
	level metal halide, Down							
F2	light	Suspended	1	50W MH	60	277	Kirlin Lighting	HSR-09095-50
	Suspended Cylinder, two							
	level metal halide, Down							
F2A	light	Suspended	1	70W MH	80	277	Kirlin Lighting	HSR-09095-70
	Open Appearance square							
F2C	can light 6"X6"	Recessed	2	42W CFL	100	277	Kirlin Lighting	FRT-04092-77
120	carrigit o xo	Necessed		42 VV CI L	100	2//	Killin Lighting	1111 04032 77
	Open Appearance square							
F2D	can light 6" X 6"	Recessed	1	42W CFL	50	277	Kirlin Lighting	FRS-06088-77
	Suspended Cylinder, two							
	level metal halide, Down							
F2B	light	Suspended	1	175W MH	215	277	Kirlin Lighting	HRS-12107-175
	Same as type "F2B" but							
	with quartz lamp included							
F2B-E								
	Open Appearance square			1				
F2F	can light 6" X 6" with	Dannand	_	42)4/ 651	50	277	Midia Liebbia -	EDC 00000 20 77
F2E	dimming ballast	Recessed	1	42W CFL	50	277	Kirlin Lighting	FRS-06088-39-77
F2E	dimming ballast	Recessed	1	42W CFL	50	277		
	dimming ballast  Wall washer square can						Kurt Versen	H8653FM-SY
F2E F2F	dimming ballast  Wall washer square can light 6" X 6"	Recessed Recessed	1	42W CFL	50 50	277		
	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4'						Kurt Versen	H8653FM-SY
F2F	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting	Recessed	1	42W CFL	50	277	Kurt Versen Kirlin Lighting	H8653FM-SY FRS-06096-77
	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.						Kurt Versen	H8653FM-SY
F2F	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4'	Recessed	1	42W CFL	50	277	Kurt Versen Kirlin Lighting Mark Arcitectural Lighting	H8653FM-SY FRS-06096-77
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting	Recessed Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.	Recessed	1	42W CFL	50	277	Kurt Versen Kirlin Lighting Mark Arcitectural Lighting	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect	Recessed Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4'	Recessed Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting	Recessed  Recessed  Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4'	Recessed  Recessed  Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting	Recessed  Recessed  Recessed	3	42W CFL F28T5	50 100	277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB
F2F F3 F3C	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture dispring fixture w/ perforated side	Recessed  Recessed  Recessed	3	42W CFL F28T5 F28T5	50 100 70	277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2
F2F F3 F3C	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.	Recessed  Recessed  Recessed	3	42W CFL F28T5 F28T5	50 100 70	277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2
F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy	Recessed  Recessed  Recessed	1 3 2	42W CFL F28T5 F28T5	50 100 70 60	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2
F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent	1 3 2 2	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent	1 3 2 2	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole	1 3 2 2	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime	1 3 2 2	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles	1 3 2 2	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the	1 3 2 2 1	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building	1 3 2 2 1	42W CFL F28T5 F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77 MDLS 24 DF 3T5 EB FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2 FBX 24 W 2 T5 E 277 PS WH
F3C F3C F3B	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall	1 3 2 2 1	42W CFL  F28T5  F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2  FBX 24 W 2 T5 E 277 PS WH  M154-150C
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall coordinate with architectural and	1 3 2 2 1	42W CFL  F28T5  F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 3  FBX 24 W 2 T5 E 277 PS WH  M154-150C
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall	1 3 2 2 1	42W CFL  F28T5  F28T5  F28T5	50 100 70 60 190	277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 3  FBX 24 W 2 T5 E 277 PS WH  M154-150C
F3C F3B F4	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture.  Pole mounted metal halide fixture, pole mounted 60' AFG	Recessed  Recessed  Recessed  Recessed  Pendent  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall coordinate with architectural and structural drawings for special attachment.	1 3 2 1	42W CFL  F28T5  F28T5  F28T5	50 100 70 60 190	277 277 277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 3  FBX 24 W 2 T5 E 277 PS WH  M154-150C  WST-70M MD277 QRS  876-1000MH-277V
F3F F3C F3B F4 F5	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security  metal halide fixture  Pole mounted metal halide fixture, pole	Recessed  Recessed  Recessed  Recessed  Pendent  Surface  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall coordinate with architectural and structural drawings for special	1 3 2 1	F28T5 F28T5  F28T5  150W MH  70W MH	50 100 70 60 190	277 277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar  Lithonia Lighting	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 3  FBX 24 W 2 T5 E 277 PS WH  M154-150C  WST 70M MD277 QRS  876-1000MH-277V
F3F F3C F3B F4 F5	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture.  Pole mounted metal halide fixture, pole mounted 60' AFG	Recessed  Recessed  Recessed  Recessed  Pendent  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall coordinate with architectural and structural drawings for special attachment.	1 3 2 1	F28T5 F28T5  F28T5  150W MH  70W MH	50 100 70 60 190	277 277 277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar  Lithonia Lighting	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2  FBX 24 W 2 T5 E 277 PS WH  M154-150C  WST-70M MD277-QRS  876-1000MH-277V
F2F  F3  F3C  F3B  F4  F5  F5	dimming ballast  Wall washer square can light 6" X 6"  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect lay-in 2'x4' architectural lighting fixture.  Direct/indirect asymmetric lay-in 2'x4' architectural lighting fixture w/ perforated side basket.  Pendant, Indirect canopy lighting  Wall mounted security metal halide fixture, pole mounted 60' AFG	Recessed  Recessed  Recessed  Recessed  Pendent  Pole mounted. Millerbernd Pole Model #UWLA 600, base "A", prime paint finish, type 2 brackets for poles attached to building and type 4R for the poles located at the apron. For building attached poles, contractor shall coordinate with architectural and structural drawings for special attachment.	1 3 2 1	42W CFL  F28T5  F28T5  150W MH  70W MH	50 100 70 60 190 80 1100	277 277 277 277 277 277	Kurt Versen Kirlin Lighting  Mark Arcitectural Lighting  Focal Point Mark Arcitectural Lighting  Focal Point  Elliptipar  Lithonia Lighting  Sterner Infranor	H8653FM-SY FRS-06096-77  MDLS 24 DF 3T5 EB  FAR 24 AC 2 T5 E 277 WH MDLS 24 DF 2  FBX 24 W 2 T5 E 277 PS WH  M154-150C  WST-70M MD277 QRS



Reynolds, Smith and Hills, Inc.

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DULUTH INTERNATIONAL AIRPORT DULUTH, MN

**NEW PASSENGER** TERMINAL

<u>CONSULTANTS</u>

Interior Architects: SJA ARCHITECTS 11 E Superior Street Se 340, Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717

Structural Engineers: MBJ CONSULTING ENG. 501 Lake Avenue South, Suite 300, Duluth MN 55802 TEL: (218) 722-1056 / FAX: (218) 722-9306

M/E/P/FP Engineers: **COSENTINI ASSOCIATES INC.** 1 South Wacker Drive, 37th Floor, Chicago IL 60606 TEL: (312) 201-7408 / FAX: (312) 201-0031

Baggage Handling Systems Consultants: BNP ASSOCIATES INC. )1 East Ridge Office Park, Suite 103, Danbury CT 06810 TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscaping Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079

**ENGINEER CERTIFICATION** I hereby certify that the engineerinhg plans, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Douglas C. Mass

Date: 08/16/10 Reg. No.: 21067

REVISIONS NO. DESCRIPTION DATE 1 ADDENDUM 1 BUILDING PERMIT 8.16.10 BID PACKAGE 2A BP2A ADDENDUM 2

DATE ISSUED: 02-25-11 REVIEWED BY: XXX DRAWN BY: JK

DESIGNED BY: JK

AEP PROJECT NUMBER 213-1882-091

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LIGHTING FIXTURE

SHEET NUMBER

E401

BID PACKAGE 2A ADDENDUM 2

Druning: E\5528.00 Duluth Airport\5.0 CHOD\(5.b) Electrical\Dugs\5528\_EHO1.dug Plotted on: 2/25/2011 9:57 AM Plotted by: Nuether, Jennifer

<sup>1.</sup> SEE MANUFACTURER DATA SHEETS FOR MORE INFORMATION.

<sup>2.</sup> CONTRACTOR TO PROVIDE ALL PARTS AND HARDWARE NESESSARY FOR A COMPLETE INSTALLATION.

<sup>3.</sup> ALL REMOTE LOW VOLTAGE TRANSFORMERS AND SECONDARY WIRING RUNS TO BE LOCATED AND INSTALLED BY CONTRACTOR TO LIMIT VOLTAGE DROP TO NO MORE THAN 5% MEASURED AT THE LAST LAMP.

<sup>4.</sup> CONTRACTOR TO INSTALL ALL COVE LIGHTING IN A CONTINUOUS FASHION SO AS TO MINIMIZE DARK SPOTS ON ADJACENT WALLS, FLOOR, OR CEILING.

<sup>5.</sup> REFER TO ARCHIECTURAL PLANS FOR SPECIFICATION OF ADDITIONAL LIGHTING FIXTURES INCLUDING THOSE, BUT NOT LIMITED TO, SHOWN IN PUBLIC AREAS, EXTERIOR AND APRON.

<sup>6.</sup> CONTRACTOR TO COORDINATE MOUNTING PROVISIONS FOR FIXTURES WITH CEILING TYPE.

<sup>7.</sup> TV CAMERA LIGHTS ARE TO BE RELOCATED FROM EXISTING TERMINAL TO NEW TERMINAL TO LOCATION AS SHOWN ON PLANS. PROVIDE 120-277V STEP UP TRANSFORMER IF EXISTING LIGHT FIXTURES ARE 120V.